



RESOURCE AND PATIENT MANAGEMENT SYSTEM

IMMUNIZATION MODULE

INSTALLATION GUIDE

Version 7.1

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**Information Technology Support Center
Division of Information Resources
Albuquerque, New Mexico**

PREFACE

This manual provides the site manager and the Area ISC the tools needed to install the various components of Indian Health Service Immunization Module Version 7.1 software. This manual contains only the information for what to do while the users are off the system and the installation process is going on. Instructions for setting package parameters, making site-specific changes, and other post-installation set-up tasks are given in the IHS RPMS Immunization Module User Manual.

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1.0 INSTALLATION NOTES

Listed below are the enhancements and changes that have been made to the Immunizations package for Version 7.1. Please share this information with all staff members who currently use the Immunizations package.

PREFIX: BI

CURRENT VERSION: 7.1

*****NOTE*****NOTE*****

READ THE ENTIRE NOTES FILE PRIOR TO ATTEMPTING ANY INSTALLATION !!!

*****NOTE*****NOTE*****

1.1 GENERAL INFORMATION

- a) Print all notes/readme files.
- b) It is recommended that the terminal output during the installation be captured using an auxport printer attached to the terminal at which you are performing the software installation. This will insure a printed audit trail if any problems should arise.

1.2 CONTENTS OF DISTRIBUTION

- a) bi__0710.k - KIDS Installation file
- b) bi__071i.pdf - Installation Guide (this document)
- c) bi__071t.pdf – Technical Manual
- d) bi__071u.pdf – User Manual
- e) bint-032001.zip NT version of Immserve
 bisco-032001.tar SCO version of Immserve
 bisun-032001.zip SUN version of Immserve
 biunix-032001.tar AIX version of Immserve

1.3 REQUIREMENTS

- a) Kernel Version 8 or later
- b) FileMan, Version 21

- c) Immunization, Version 7.0
- d) XB/ZIB v 3.0, through patch 8 (xb__0300.08k).
- e) PCC Health Summary, Version 2.0, through patch 7 (apch0200.07k).
(for enhanced Health Maintenance Reminders)
- f) PCC Data Transmission, Version 2.0, through patch 4 (apcp0200.04k).
(for submission of data to IHS Headquarters)
- g) Qman, Version 2.0, through patch 16 (amqq0200.16p).
(for Qman searches regarding Immunizations)
- h) PCC Management Reports, Version 3.0, through patch 8 (apcl0300.08k)
(for Immunization Reports under PCC Management Reports)
- i) MSM Maximum Partition Size of 100K or larger. (See 2,h of this
Installation Guide.)
- j) MSM Stack of 50. (See 2,h of this Installation Guide.)
- k) It is critically important that the screen handling codes for C-VT100 in the
Terminal Type File be up to date. (See 2,e of this Installation Guide.)

2.0 INSTALLATION INSTRUCTIONS

NOTE! In order to load Immunization version 7.1 over the previously installed version 7.0, it will be necessary to shutdown MSM and to reboot AIX or NT. This installation should therefore be planned for a time when it will be possible to reboot your computer.

In all UCI's running Immunization:

- a) Be sure that a good backup of the MSM database has been obtained and is available. Disable logins or ensure all users are off, or at least ensure that PCC Data Entry for immunizations is not occurring and that Health Summaries are not being printed.
- b) Save and delete the routines BI*.
- c) Under the KIDS menu select Installation, and then select "Load a Distribution". At the "Enter a Host File: " prompt, enter the filename bi__0710.k preceded by the appropriate pathname for your system (for example, /usr/spool/uucppublic/bi__0710.k)

Answer "YES" to questions concerning "Continue to load" and "Environmental Check Routine".

- d) Under the same KIDS Installation menu, select "Install Package". Enter "IMMUNIZATION 7.1" (or press <spacebar>).

At the "DEVICE:" prompt select "HOME". Do not send the output of this installation to a printer, as there is some user interaction required. (You may capture the output to a buffer or printscreen.) At the end of the installation, a message to either D ^BIPOST or D ^BIUPDATE will be displayed; simply press <RETURN> or <ENTER> to complete the installation.

- e) Be sure that the 3 BIZ Security Keys are assigned to the site manager and immunization program manager. Also check the Site Parameters (IMM-->MGR-->ESP). Each site parameter presents online help when selected and can be successfully edited by knowledgeable people, even if they haven't received training in the package.
- f) The following 2 parameters may need to be adjusted in order for MSM to run this package properly. These tuning parameters are adjusted in the SYSGEN program in the MSM MGR UCI. Your system may already be set to these levels, or usage on your system may not require these adjustments. You may skip these adjustments at this point and wait to see if errors occur. If these errors occur, they will inconvenience users but will not corrupt data.

PARTITION SIZE - A Partition Size of 36k or even 50k may at times be too small. This will be manifested by the occasional <PGMOV> error. If this error occurs, raise the Default Partition Size to 100k.

In the MGR UCI: D ^SYSGEN-->3(Edit Config)-->12(Default Part Size)-->100.

Be sure that any Tied Terminal entries are also set to 100k (D ^SYSGEN-->3-->8). (See MSM Manuals for further instructions on SYSGEN.)

STACK - A Stack of 30k or less will at times be too small. This will be manifested by the occasional <STKOV> error. If this error occurs, raise the Stack Size to 50K or higher.

In the MGR UCI: D ^SYSGEN-->9(Sys Config Params)-->3(Stack and Stap)-->50. (See MSM Manuals for further instructions on SYSGEN.)

g) The final step of installation involves setting up the ImmServe software.

The RPMS Immunization Package, V. 7.1 makes use of a piece of commercial software called ImmServe, distributed by Medical Decisions Associates, Inc (MDA). This software is an immunization forecasting utility. Immunization "forecasting" is the complex and ever changing process of determining which immunizations patients are due for, based on their immunization history.

The IHS and MDA have worked closely to produce immunization forecasting for RPMS which utilizes the latest HL7/CVX codes for vaccines and vaccine combinations, as maintained now by the Centers for Disease Control (CDC). Renewal of the annual IHS-wide license with MDA for this software will allow the RPMS Immunization Package to remain abreast of the latest vaccines and vaccine combinations licensed by the Food and Drug Administration (FDA).

ImmServe is basically a C program that runs on the same host file server that MSM runs on. The C program is loaded into memory by MSM's XCALL utility and resides in memory as long as MSM is running, which provides efficient processing of forecasts even when tens of thousands of patients are being processed for reports.

Load the ImmServe utility by performing the following steps:

STEP 1: If this is a SCO or SUN installation, skip this step and go directly to STEP 3. In MSM, in the MGR UCI, under SYSGEN, Edit Configuration Parameters, External Calls Configuration, Files to load at startup, add the C program and its path (biaix or bint)

D ^SYSGEN-->3(Edit Config)-->11(Ext Calls)-->1(Files to load)-->

Existing files, if any, will be listed. Enter a new Index# and a filename.

Examples of file names to load:

<u>Op System</u>	<u>Filename</u>
NT	c:\msm\bint
AIX	/m/biaix

The Sysgen edit may display a warning such as: **“Warning – unable to read file...”**. Disregard this message (you will put the file in its place before rebooting MSM).

STEP 2: Shutdown MSM. Shutdown and reboot AIX or NT—but DO NOT restart MSM. (This step is necessary to release the ImmServe DLL or library that had been previously loaded into memory during the beta test. This will allow you to replace it with the later version.)

STEP 3: In the directory that holds MSM (usually named M or MSM) create a subdirectory named Immserve, if it does not already exist. Load this Immserve subdirectory with the ImmServe file for your machine’s operating system: bint-032001.zip for the NT operating system, biunix-032001.tar for AIX, bisco-032001.tar for SCO, and bisun-032001.zip for Sun Solaris. (The date portion of the packed file may vary according to the latest version.)

Untar or unzip the file as appropriate (i.e., tar xvf biunix-040101.tar, or use WinZip to extract bint-040101.zip) Then all of the files in the Immserve subdirectory must be copied into the parent MSM directory.

STEP 4: Start up MSM.

STEP 5: In the RPMS Immunization v7.1 Site Parameters, select the Operating System of the machine the software is running on. In the case of SCO and SUN, an additional question will ask for the MSM Home Directory (this is the directory where the MSM system files reside).

MGR-->ESP-->15) Operating System-->AIX/NT/SCO/SUN

STEP 6: ImmServe offers 9 sets of "Forecasting Rules" from which individual sites may choose in order to customize the software for their use (for example, DTap at 12 months versus 15 months). In the RPMS Immunization Site Parameters, choose "9) ImmServe Forecasting Rules", and select the desired set of Rules.

MGR-->ESP-->9) Forecasting Rules-->Make selection. This choice should be made with the Immunization Program Coordinator for the facility. (Rule Set #1 can be selected as a temporary choice.)

SPECIAL NOTE for SCO and SUN: Users should be in the MSM Home Directory (e.g., /m or /usr/mumps) before going into MSM. In other words, a script would contain the commands `cd /m` (if /m was the MSM Home Directory). And Users should be part of a Group that has the following permissions:

1. Read/Write/Execute permission to the MSM Home Directory.
2. Read/Execute permission to the Immserve's bisco or bisun utility.
3. Read/Write permission to the *.csv files.

This is because in the cases of SCO and SUN, use of the ImmServe forecasting utility involves writing, reading and executing Host Server Files in the MSM Home Directory.

STEP 7: In the RPMS Immunization Site Parameters, set Forecasting to Enabled. MGR-->ESP-->12) Forecasting-->"Enabled"

NOTE: If the ImmServe utility is not properly loaded, users may get <XCALL> errors. These errors may be avoided by setting the Forecasting Site Parameter to "Disabled" (until the problem is fixed). The rest of the Immunization Package will function normally, and in place of forecasts a message will display indicating that forecasting is disabled.

h) Enable logins and/or BIMENU. There are many telnet terminal emulators available today. Many have them lack features such as slave printing, printscreen, reverse scrolling, cut and paste, etc. NetTerm by Intersoft has proven to be an excellent telnet terminal emulator for Windows and NT. Trial license versions may be obtained online at:

<http://starbase.neosoft.com/~zkrr01/html/netterm.html>

k) Review the Package Setup Information found under the Manager Menu (MGR-->PKG), which provides important information on Options, Security Keys, Devices, old menu options, partition Size, the vaccine table, duplicate Lot Numbers, and more.

The Package Setup Information is also printed in Appendix A of the Technical Manual.

3.0 POINT OF CONTACT

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or

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